DOCUMENT RESUME

ED 444 633 JC 000 585

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TITLE 5-Year Report of JCCC Career Programs, Fall 1993 to Spring 1998.
INSTITUTION Johnson County Community Coll., Overland Park, KS. Office of Institutional Research.
PUB DATE 1999-09-00
NOTE 39p.
PUB TYPE Reports - Research (143)
EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Career Guidance; Community Colleges; Graduate Surveys; *Outcomes of Education; Program Effectiveness; Program Evaluation; Two Year Colleges
IDENTIFIERS *Johnson County Community College KS

ABSTRACT

This document summarizes important findings from the last five follow-up studies of career program completers (Class of 1993-94 to Class of 1997-98) conducted at Kansas' Johnson County Community College (JCCC). Major findings are reported on enrollments, profile of students in spring 1998 career program classes, completions, respondents to short-term follow-up studies, status after program completion, wages of respondents employed in a full-time related job, and respondent and employer satisfaction. Career program enrollments declined in four of the past five years and then rebounded slightly in 1997-98. A smaller percent of female, part-time, and younger students were found in career program classes than in the JCCC student body as a whole in spring 1998. The percent of students completing career programs compared to total enrollments has increased substantially in the last two years of the study. Nearly 82% of respondents reported that they were working in a job related to their career program. The overall average hourly wage of respondents employed full-time in a job related to their career program increased by 20% between the follow-ups of the Class of 1993-94 and the Class of 1997-98. Six out of seven respondents expressed satisfaction with their current full-time, program-related job, for a five-year composite average of 83%. (An appendix includes tabled data.) (VWC)

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Accounting
Administration of Justice
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Business Administration
Business Entrepreneurship
Chef Apprenticeship
Civil Engineering Technology
Communication Design
Computer Information Systems
Cosmetology
Dental Hygiene
Drafting Technology
Early Childhood Education
Electrical Technology
Electronics Technology
Emergency Medical Science
Fashion Merchandising
Fire Services Administration
Grounds and Turf Management
Health Information Technology
Health Occupations
Heating, Ventilation and Air Conditioning Technology
Hospitality Management
Information Technology
Interior Merchandising
Interpreter Training
Marketing and Management
Metal Fabrication Technology
Nursing
Occupational Therapy Assistant
Office Systems Technology
Paralegal
Physical Therapist Assistant
Radiologic Technology
Railroad Operations
Respiratory Care
Science Technology
Surgical Technology
Travel and Tourism Management
Veterinary Technology

5-Year Report of JCCC Career Programs

Fall 1993 to Spring 1998

Johnson County Community College
Office of Institutional Research

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September 1999

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5-YEAR REPORT OF

JCCC CAREER PROGRAMS

FALL 1993 TO SPRING 1998

Johnson County Community College
Office of Institutional Research
12345 College Blvd.
Overland Park, KS 66210

September 1999

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INTRODUCTION

The purpose of this report is to summarize important findings from the last five follow-up studies of career program completers conducted by the JCCC Office of Institutional Research (Class of 1993-94 to Class of 1997-98). In so doing, it also brings together information which answers the questions most often asked about the college's career program offerings. Career programs have been a part of the JCCC curriculum throughout the college's 30 year history. The college's original philosophy and goals statement described the educational program as embracing a broad range of curricula to serve a variety of objectives including, "occupational programs designed to provide the technical knowledge, manipulative skills, and general background necessary to successful achievement in technical and semi-professional employment." Subsequent revisions of the college's mission statement have continued to emphasize the importance of career programs in the options available to JCCC students.

Approximately one in three JCCC students have declared a career-related educational objective since the college's inception, and the number and variety of career programs has grown as the college expanded. By 1980, nearly 30 different career programs were offered, and today's students may choose from over 50 options ranging from short-term certificate programs lasting less than one semester to associate degree programs that may involve up to six semesters of full-time study.

Although career programs by definition are preparation for the world of work, completers may eventually decide to pursue a bachelor's degree or higher as they advance in their chosen career field. For this reason, JCCC continually works with 4-year colleges and universities to develop articulation agreements which maximize the future educational opportunities of career program completers as well as those who plan their educational program with transfer in mind. In some instances, arrangements have been made for faculty from 4-year institutions to bring upper division coursework to the JCCC campus for the convenience of students desiring to further their education without having to commute long distances or move out of the area.

Thus, JCCC continues to strive to meet the changing needs of its students and the workplace through the addition of new career programs, discontinuation of programs no longer deemed appropriate in a changing market, and development of articulation agreements with 4-year colleges and universities which facilitate the transfer process for students desiring to continue their educational pursuits. Results of follow-up studies of both career program completers and their employers over the past 5 years indicate the college has been highly successful in meeting those needs.

Enrollment Data Sources: Determining realistic and accurate enrollment figures for each career program posed an interesting challenge due to dual enrollments, selective admissions requirements, co-op arrangements, and changes in students' educational objective and program intent. The annual JCCC Fall Enrollment Report details career program enrollments based on

program intent codes in the student database as of the 20th day of classes (the college's "official" enrollment headcount for state reporting purposes), and the Kansas Vocational Education Department state report (KVEIS) provides an unduplicated headcount of students enrolled in vocationally funded programs throughout the previous academic year (summer, fall and spring). These data thus became the starting point for enrollment figures for this report, with adjustments based upon information provided by the career program facilitators.

Completer Data Source: Career program completers were defined as all students who either had earned a degree or certificate, or who had left their program with marketable skills. These data have been adjusted to reflect corrections resulting from identification of individuals via the follow-up process who had been erroneously identified as career program completers and were either currently enrolled or had completed their career program at another time.

Respondent Data Source: Respondent data for this report were taken directly from previously published reports of findings for short- and long-term follow-up studies of career program completers and their employers. In order to maintain internal consistency, no attempt was made to adjust the response rate in this report to eliminate former students who had no opportunity to respond due to obsolete addresses and telephone numbers. Thus, the response rate provided in this 5-year report differs from the response rate cited in each of the individual reports published over the past 5 years.

A summary of major findings follows, and tabled data are located in the appendix. Caution should be exercised when generalizing these data due to the relatively small number of respondents in some programs. Comments and questions regarding this report or previous follow-up studies of career program completers may be directed to:

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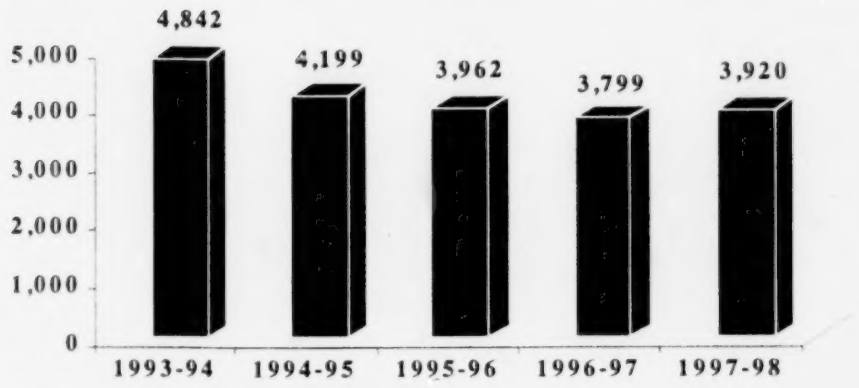
ENROLLMENTS

How have career program enrollments changed over time? Which programs have exhibited the greatest change in the number of students?

As Figure 1 depicts, career program enrollments declined in four of the past 5 years, then rebounded slightly in 1997-98. These fluctuations are partially attributable to the enhanced accuracy of the student database resulting from installation of the new Banner system during the 1994-95 academic year, and to changes in the application form from which degree intent and program major declarations were taken. However, JCCC enrollments overall also exhibited slight declines in three of the past 5 years.

Career programs exhibiting the greatest numerical increase in students over the 5-year period were chef apprentice (+41), computer information systems (+39), business entrepreneurship (+27), and interior merchandising (+20). The career programs exhibiting the greatest decrease in students over the 5-year period were electronics engineering technology (-134), administration of justice (-97), business administration (-76) and emergency medical technology (-74). Enrollment data for all career programs are detailed in Tables 1 and 2.

Figure 1
5-Year Comparison of JCCC
Career Program Enrollments



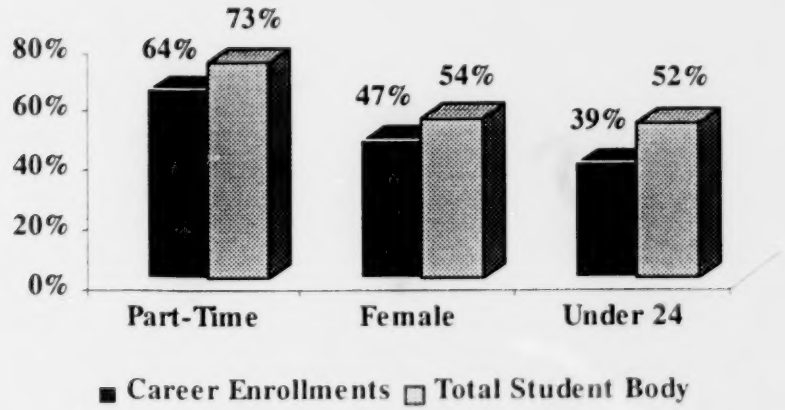
PROFILE OF STUDENTS IN SPRING 1998
CAREER PROGRAM CLASSES

What percent of JCCC career program enrollees attend part-time only, and how does that compare with the college as a whole? Which programs enroll the greatest percent of females? Which programs enroll the greatest percent of traditional-age students (<24)?

As Figure 2 depicts, a smaller percent of females, part-time (enrolled in less than 12 credit hours), and younger students were found in career program classes than in the JCCC student body as a whole in spring 1998. Females comprised over 90% of students in cosmetology, dental hygiene, fashion merchandising, interior merchandising, and the two nursing programs, while the concentration of males was highest in automotive technology, electrical technology, fire science, HVAC technology, metal fabrication, and railroad operations classes.

The greatest concentration of part-time students was found in civil engineering technology, electrical technology, HVAC technology, metal fabrication, and railroad operations classes. Traditional age students were most prevalent in classes offered for the administration of justice, automotive technology, fashion merchandising, and marketing & management programs. Details by program of enrollment status, gender, and age are located in Table 3.

Figure 2
Profile of 1998 JCCC Students



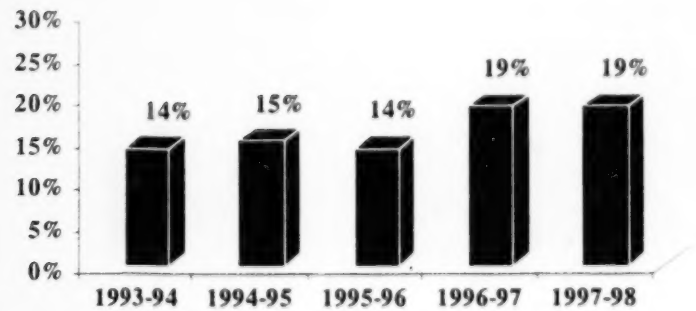
COMPLETIONS

Has the percent of students completing career programs changed over time? Which career programs have produced the most completers over the past 5 years?

As Figure 3 depicts, the percent of students completing career programs compared to total enrollments has increased substantially in the past two years. This increase may be at least partially attributable to the enhanced accuracy of the student database resulting from installation of the new Banner system during the 1994-95 academic year, the manner in which students now declare their major on the JCCC application form, and the smaller number of career program enrollments in the last 2 years compared to the first 3 years of this 5-year analysis. Because so many students attend career classes on a part-time basis or to upgrade their current skills with no desire to complete an entire program, the overall percent of completers compared to enrollees will always be relatively small.

Programs producing the largest total number of completers over the 5-year period were emergency medical technology (398), computer information systems (301), nursing (272), paralegal (240), and office systems technology (160). See Tables 4 and 6 for details by career program.

Figure 3
Completions as a Percent of Enrollments in Career Programs



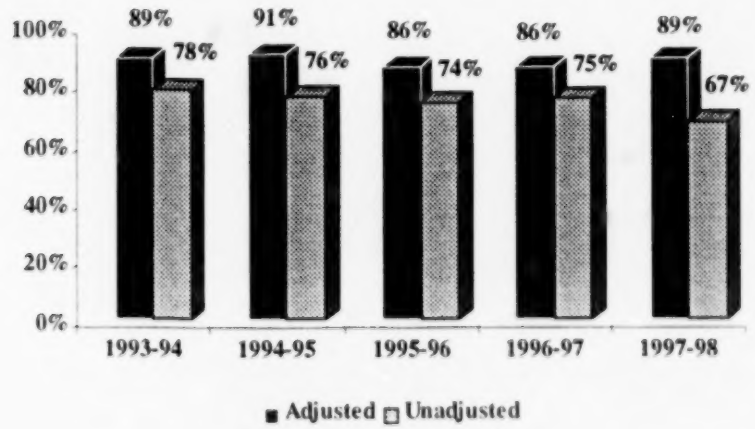
RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

What percent of career program completers have responded to the short-term follow-up study each year, and which programs have enjoyed the greatest percent of respondents over the past 5 years?

As Figure 4 depicts, unadjusted response rates exhibited a 12% decline over the 5-year period while adjusted response rates have remained fairly stable. Since inaccurate addresses and telephone numbers preclude the opportunity to respond and thus result in an adjusted response rate, it appears that the problem of obtaining correct addresses and telephone numbers for career program completers has worsened over time despite continued efforts to update these data prior to the first mailing of the survey.

Excluding new programs and cooperatives where the numbers were small, the highest overall unadjusted response rates for the 5-year period were from completers of respiratory care (91%), dental hygiene (88%), nursing (86%), fire science (84%), MICT/paramedic (82%), office systems (81%), and business administration (81%). See Tables 5 and 6 for detailed findings by career program.

Figure 4
5-Year Comparison of Response Rates



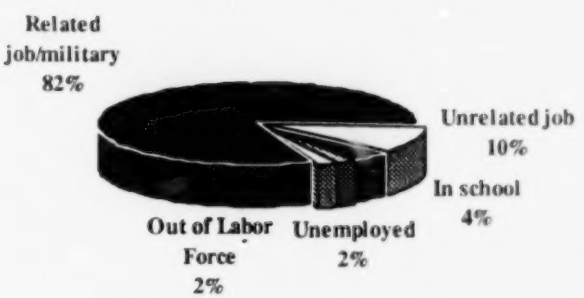
STATUS AFTER PROGRAM COMPLETION

What percent of respondents were employed in a job related to their career program? What were the other respondents doing? Which career programs exhibited the greatest percent of respondents who were employed in a related job?

Nearly 82% of respondents to the short-term follow-up studies conducted over the past 5 years reported that they were working in a job related to their career program. Only 2% were unemployed and looking for work; 10% were working in an unrelated job; 4% were pursuing additional education, and the remainder were either serving in the military or out of the labor force all together.

Of programs with 10 or more total respondents, the following averaged at least 95% employment in a related job: physical therapy assistant (100%), respiratory care (97%), dental hygiene (97%), veterinary technology (96%), electrical technology (95%), and nursing (95%). See Table 7 for detailed results of the 5-year average of respondent status for all career programs.

Figure 5
5-Year Average: Current Status of Career Program Completers



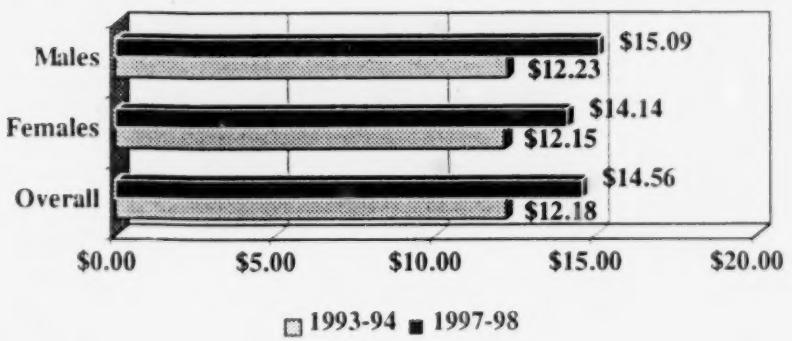
WAGES OF RESPONDENTS EMPLOYED IN A FULL-TIME RELATED JOB

Has the average hourly wage of respondents employed in a job related to their career program increased over time? How much difference was evident between the average hourly wage reported by males vs. females? Which career programs exhibited the highest average hourly wage last year?

As Figure 6 depicts, the overall average hourly wage of respordents employed full-time in a job related to their career program increased by 20% between the follow-up of the Class of 1993-94 and the Class of 1997-98. The average hourly wage for males increased 23% over this 5-year period, while the average for females increased by 16%.

The career programs with at least 10 respondents who reported the highest average hourly wage for the Class of 1997-98 were dental hygiene ($23.24), information technology ($17.67), computer information systems ($17.03), electronics engineering technology ($16.43), nursing ($16.31), and HVAC technology ($16.07). See Table 8 for details of results.

Figure 6
5-Year Comparison of Average HourlyWage of Respondents in Full-time Related Job



RESPONDENT AND EMPLOYER SATISFACTION

How satisfied were respondents with their full-time related job, and which career programs enjoyed the greatest percent of respondents expressing satisfaction? How satisfied were the employers with their completers' overall job preparation, and which career programs enjoyed the greatest percent of respondents with satisfied employers?

As Figure 7 depicts, six out of seven respondents expressed satisfaction with their current full-time related job for a 5-year composite average of 83%. The career programs with 10 or more total respondents exhibiting the greatest percent of satisfied respondents were MICT paramedic (95%), communication design (93%), licensed practical nurse (93%), cosmetology (91%), and dental hygiene (91%).

As Figure 8 depicts, 9 out of 10 employers provided positive evaluations of the overall job preparation received by their community college-trained employee, for a 5-year composite average of 90%. The career programs with 10 or more total respondents that enjoyed all (100%) positive responses from employers during the last 5 years were accounting, fashion merchandising, information technology, marketing & management, and veterinary technology. See Tables 9 and 10 for results by career program.

Figure 7
5-Year Average: Respondent Satisfaction With Current Full-Time Related Job

Figure 8
5-Year Average: Employer Evaluation of Overall Job Performance

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Table 1

JCCC CAREER PROGRAM ENROLLMENTS [1]

Career Program	'93-94	'94-95	'95-96	'96-97	'97-98
Accounting	277	257	243	231	219
Administration of Justice	230	184	168	141	133
Automotive Technology	78	72	59	62	64
Aviation Maintenance Tech. (co-op)[4]	13	12	11	8	2
Business Administration	498	443	382	391	422
Business Entrepreneurship	60	58	84	85	87
Chef Apprentice	164	175	166	162	205
Civil Engineering Tech.	57	66	58	51	47
Communication Design	228	244	212	222	235
Computer Information Systems	342	345	400	377	381
Cosmetology (AVS)	n/a	n/a	19	19	37
Dental Hygiene (selective)[3]	115	71	46	59	45
Drafting Technology/Construction Mgmt	120	126	95	124	107
Electrical Technology	n/a	n/a	n/a	n/a	67
Electronics Engr. Tech.	282	222	172	195	148
Emergency Medical Science[5]	162	129	119	75	88
Fashion Merchandising	71	82	78	65	49
Fire Science	86	81	85	85	68
Grounds & Turf Management (co-op)[4]	14	19	22	22	13
Health Information Tech. (co-op)[4]	26	23	11	7	2
Hospitality Management	163	183	217	225	157
HVAC Technology	142	148	182	194	126
Information Technology	n/a	n/a	n/a	n/a	241
Interior Merchandising	107	101	116	106	127
Interpreter Training (selective)[3]	76	51	50	51	51
Licensed Practical Nurse (LPN)	n/a	n/a	n/a	23	20
Marketing & Mgmt./Sales & Cust. Relations	90	88	72	77	80
Metal Fabrication[2]	9	6	8	12	13
Nursing (selective)[3]	599	372	126	111	122
Occup. Therapy Asst. (co-op)[4]	52	46	48	22	13
Office Systems Technology	192	175	154	161	174
Paralegal (selective)[3]	268	111	132	122	115
Physical Therapy Asst. (co-op)[4]	118	120	118	76	46

Table 1 (continued)

JCCC CAREER PROGRAM ENROLLMENTS [1]

Career Program	'93-94	'94-95	'95-96	'96-97	'97-98
Radiologic Tech. (co-op)[4]	81	84	70	26	15
Railroad Operations	n/a	n/a	111	118	104
Respiratory Care (selective)[3]	74	39	20	17	11
Science Technology (discontinued)	16	19	18	15	14
Travel & Tourism (co-op)[4]	n/a	n/a	n/a	2	n/a
Veterinary Tech. (co-op)[4]	32	47	36	17	18
Totals	4,842	4,199	3,962	3,799	3,920
Percent of Change[6]	-15.6%	-13.3%	-5.6%	-4.1%	+3.2%

Note. [1] To ensure consistency in determining enrollment trends, data have been taken from the official JCCC Fall Enrollment Reports which reflect the major indicated on each student's admission form. These figures may not be representative of enrollments for the academic year as a whole, and discrepancies may be apparent in enrollment information for selective admissions programs since the information does not necessarily reflect acceptance into these programs.

[2] Enrollments in Metal Fabrication do not include students receiving specialized training at JCCC's National Academy of Railroad Sciences.

[3] Selective admissions program or unusual situation which impacted enrollment figures.

[4] Cooperative program housed at Metropolitan Community Colleges; number represents intent indicated on JCCC application as published in the JCCC Fall Enrollment Reports and is not indicative of acceptance into the program or of the total number of students enrolled in the program at one of the Metropolitan Community Colleges.

[5] Enrollments in the Emergency Medical Science may not be accurate due to dual enrollments of many of these students in programs such as Fire Science, Administration of Justice, or various allied health programs, and to late start classes not included in the 20th day official enrollment data.

[6] Enrollment declines at least somewhat attributable to the enhanced accuracy of the Banner student database in identifying students who have been accepted into the selective admissions programs.

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Table 2

5-YEAR CHANGE IN CAREER PROGRAM ENROLLMENTS

Career Program	Fall 1993 Enrollment	Fall 1997 Enrollment	Numerical Change	Percent of Change
Accounting	277	219	-58	-20.9%
Administration of Justice	230	133	-97	-42.2
Automotive Technology	78	64	-14	-17.9
Business Administration	498	422	-76	-15.3
Business Entrepreneurship	60	87	+27	+45.0
Chef Apprentice	164	205	+41	+25.0
Civil Engineering Tech.	57	47	-10	-17.5
Communication Design	228	235	+7	+3.1
Computer Information Systems (D. P.)	342	381	+39	+10.2
Drafting Tech./Construction Mgmt.	120	107	-13	-10.8
Electronics Engineering Tech.	282	148	-134	-47.5
Emergency Medical Science	162	88	-74	-45.7
Fashion Merchandising	71	49	-22	-31.0
Fire Science	86	68	-18	-20.9
Hospitality Management	163	157	-6	-3.7
HVAC Technology	142	126	-16	-11.3
Interior Merchandising	107	127	+20	+18.7
Marketing & Mgmt./Customer Relations	90	80	-10	-11.1
Metal Fabrication	9	13	+4	+44.4
Office Systems Technology	192	161	-31	-9.4
Totals	3,358	2,917	-428	-13.0%

Note. Enrollment data taken from the official JCCC Fall Enrollment Reports for 1993 and 1997. Discontinued programs, selective admissions programs, co-op programs, and programs initiated at the college after fall of 1993 have been excluded; 5-year enrollment comparisons would have been meaningless in these situations due to capped enrollments in selective admissions and co-op programs, and to the lack of a full 5 years of data for new or discontinued programs.

Table 3

PROFILE OF SPRING 1998 STUDENTS
ENROLLED IN JCCC CAREER PROGRAM CLASSES

Career Program	Number	Part-Time	Female	Under 24 yrs.
Accounting	813	52.4%	55.4%	50.3%
Administration of Justice	226	50.0	41.6	65.1
Automotive Technology	96	59.4	5.2	58.3
Business Administration	987	53.5	54.4	53.5
Business Entrepreneurship	44	56.8	52.3	25.0
Civil Engineering Tech.	60	83.3	15.0	16.7
Communication Design	165	53.9	55.8	46.6
Computer Information Systems	1,105	69.3	37.2	28.4
Cosmetology (AVS)	35	0.0	100.0	54.3
Dental Hygiene (selective)	46	37.0	95.7	23.9
Drafting Technology	235	63.0	39.6	34.5
Electrical Technology	96	90.6	3.1	17.7
Electronics Engineering Tech.	346	77.2	19.9	25.7
Emergency Medical Science	165	69.1	29.1	55.7
Fashion Merchandising	84	45.2	92.9	82.2
Fire Science	63	63.5	4.8	57.1
Hospitality Mgmt./Chef Apprentice	412	70.6	46.1	42.5
HVAC Technology	154	86.4	1.3	14.9
Information Technology	260	75.4	23.1	13.4
Interactive Media	22	72.7	45.5	18.2
Interior Merchandising	158	62.0	95.6	41.8
Interpreter Training (selective)	92	60.9	88.0	42.4
Licensed Practical Nurse (AVS)	17	0.0	94.1	11.8
Marketing & Management	78	48.7	62.8	59.0
Metal Fabrication	147	90.5	4.1	19.0
Nursing (selective)	108	70.4	93.5	17.6
Office Systems Technology	293	73.7	79.5	31.4
Paralegal (selective)	146	78.8	82.2	26.7
Railroad Operations	21	81.0	0.0	23.8
Respiratory Care (selective)	7	0.0	57.1	42.9
Totals	6,481	64.0%	46.6%	39.2%

Note. Data taken from the ***JCCC Program Enrollment Report*** for spring 1998 which extracts data on students by class prefix. Thus, the data do not describe only students who are majoring in these career programs. Although occasionally enrolled in less than 12 credit hours, dental hygiene and nursing students are considered full-time by their career program administrators due to the number of clock hours required per week in the clinical experience components.

Table 4

JCCC CAREER PROGRAM COMPLETERS[1]

Career Program	Academic Year in Which Program Completed '93-94	'94-95	'95-96	'96-97	'97-98
Accounting	14	11	20	23	14
Administration of Justice	18	22	13	6	9
Automotive Technology	12	12	3	4	4
Aviation Maintenance Tech. (co-op)[2]	1	0	3	1	0
Business Administration	23	22	12	21	12
Business Entrepreneurship	3	4	3	3	4
Carpentry (AVS)	n/a	1	0	1	0
Chef Apprentice	18	23	9	12	8
Civil Engineering Tech.	3	10	1	1	3
Communication Design	30	12	18	25	11
Computer Information Systems	63	58	42	79	59
Cosmetology	n/a	n/a	2	14	31
Dental Hygiene (selective)	23	19	19	22	21
Drafting Technology/Construction Mgmt.	10	10	9	15	21
Electrical Technology (AVS)	n/a	1	7	9	11
Electronics Engineering Tech.	40	42	13	24	22
Emergency Medical Technology[4]	70	57	77	80	114
Fashion Merchandising	9	4	4	10	12
Fire Science	12	8	12	14	10
Grounds & Turf Management (co-op)[2]	n/a	n/a	n/a	2	0
HVAC Technology	37	41	27	16	19
Health Information Tech. (co-op)[2]	6	0	0	1	0
Hospitality Management[3]	17	22	36	13	26
Information Technology	n/a	n/a	n/a	54	52
Interior Merchandising	19	9	11	15	16
Interpreter Training (selective)	14	17	21	10	9
Licensed Practical Nurse (AVS)	n/a	19	19	16	33
Marketing & Management	15	7	2	4	9
Metal Fabrication	1	3	3	1	3
M.I.C.T. (Paramedic)	18	20	12	17	18
Nursing (selective)	56	49	61	47	59
Occup. Therapy Asst. (co-op)[2]	0	0	0	6	0

Table 4 (continued)

JCCC CAREER PROGRAM COMPLETERS [1]

Career Program	Academic Year in Which Program Completed '93-94	'94-95	'95-96	'96-97	'97-98
Office Systems Technology	43	52	23	27	24
Paralegal (selective)	46	54	58	43	39
Physical Therapy Asst. (co-op, includes all 1998)[2]	0	0	0	0	39
Printing (AVS)	n/a	1	0	2	0
Railroad Operations	n/a	n/a	n/a	n/a	1
Respiratory Care (selective)	19	17	14	13	7
Veterinary Tech. (co-op, includes all 1998)[2]	27	7	0	5	23
Totals	667	634	554	656	743
Percent of Change	-0.1%	-2.3%	-1.0%	+17.5%	+9.6%

Note. [1] Completers identified from short-term follow-up study corrected lists and may not include completers who had not been entered into the Banner student database at the time the completer file was compiled. The follow-up study of career program completers does not include Burlington Northern employees or completers of one of the Health Occupations certificate programs.

[2] Co-op program conducted primarily at one of the Metropolitan Community Colleges. Only completers initiating their studies at JCCC have been included unless lists of other completers have been provided by the Metropolitan Community College career program administrator.

[3] Does not include completers incarcerated at the U.S. Army Disciplinary Barracks in Fort Leavenworth, Kansas.

[4] Completions in the Emergency Medical Science programs may not be accurate due to dual enrollments of many of these students in other programs such as Fire Science, Administration of Justice, or various allied health programs.

Table 5

RESPONDENTS TO SHORT-TERM STUDIES OF CAREER PROGRAM COMPLETERS

Career Program	Academic Year in Which Program Completed '93-94	'94-95	'95-96	'96-97	'97-98
Accounting	9	6	15	17	13
Administration of Justice	14	16	10	3	5
Automotive Technology	11	8	2	3	4
Aviation Maintenance Tech. (co-op)[2]	1	0	3	0	0
Business Administration	20	16	10	16	11
Business Entrepreneurship	1	1	3	1	1
Chef Apprentice	12	14	3	7	7
Civil Engineering Tech.	3	5	1	1	3
Communication Design	24	11	15	20	7
Computer Information Systems	48	43	28	62	42
Cosmetology	n/a	n/a	1	3	12
Dental Hygiene (selective)	23	18	17	15	18
Drafting Technology/Construction Mgmt.	7	7	7	13	13
Electrical Technology	n/a	n/a	5	6	8
Electronics Engineering Tech.	33	34	11	18	15
Emergency Medical Technology[3]	48	38	47	55	64
Fashion Merchandising	9	3	4	5	7
Fire Science	9	7	11	11	9
Grounds & Turf Management (co-op)[2]	n/a	n/a	n/a	1	0
Health Information Tech. (co-op)[2]	5	0	0	1	0
Hospitality Management[4]	13	14	28	9	18
HVAC Technology	31	28	17	13	14
Information Technology	n/a	n/a	n/a	46	39
Interior Merchandising	15	8	9	10	10
Interpreter Training (selective)	12	17	14	7	7
Licensed Practical Nurse (AVS)	0	16	11	14	23
Marketing & Management	13	7	1	3	5
M.I.C.T. (Paramedic)[3]	12	15	16	16	11
Metal Fabrication	1	1	2	1	2
Nursing (selective)	46	49	53	38	47
Occup. Therapy Asst. (co-op)[2]	0	0	0	3	0

Table 5 (continued)

RESPONDENTS TO SHORT-TERM STUDIES OF CAREER PROGRAM COMPLETERS

Career Program	Academic Year in Which Program Completed '93-94	'94-95	'95-96	'96-97	'97-98
Office Systems Technology	37	42	14	22	22
Paralegal (selective)	41	39	35	37	26
Physical Therapy Asst. (co-op)[2]	0	0	0	0	12
Printing Technology (AVS)	0	1	0	1	0
Radiologic Tech. (co-op)[2]	0	0	0	0	0
Railroad Operations	n/a	n/a	n/a	n/a	1
Respiratory Care (selective)	19	13	14	11	7
Sales & Customer Relations	0	0	0	0	0
Veterinary Tech. (co-op)[2]	4	6	0	2	11
Total Respondents	521	483	407	491	494
Total Completers	667	634	554	656	743
Unadjusted Response Rate[1]	78.1%	76.2%	73.5%	74.8%	66.5%
Adjusted Response Rate[1]	89.1%	91.3%	85.9%	86.2%	89.2%

Note. [1] Adjusted response rates differ from unadjusted response rates in that they exclude completers with no opportunity to respond due to the unavailability of viable addresses and/or telephone numbers.

[2] Selective admissions co-op program with Metropolitan Community Colleges. Completer figures may include additional students suggested by co-op career program administrators for inclusion in the follow-up who did not originate their studies at JCCC.

[3] Completion figures may not be accurate due to dual enrollments of many EMS students in other programs such as Fire Science, Administration of Justice, or various allied health programs.

[4] Completer figure does not include students incarcerated at the U.S. Army Disciplinary Barracks in Fort Leavenworth, Kansas.

Table 6

COMPARISON OF 5-YEAR TOTALS: CAREER PROGRAM COMPLETERS & RESPONDENTS

Career Program	Total Completers	Total Respondents	Respondents as % of Completers[1]
Accounting	82	60	73.2%
Administration of Justice	68	48	70.6
Automotive Technology	35	28	80.0
Aviation Maintenance Tech. (co-op)[2]	5	4	80.0
Business Administration	90	73	81.1
Business Entrepreneurship	17	7	41.2
Carpentry (AVS)	2	0	0.0
Chef Apprentice	70	43	61.4
Civil Engineering Tech.	18	13	72.2
Communication Design	96	77	80.2
Computer Information Systems	301	223	74.1
Cosmetology	47	16	34.0
Dental Hygiene (selective)	104	91	87.5
Drafting Technology/Construction Mgmt.	65	47	72.3
Electrical Technology (AVS)	28	19	67.9
Electronics Engineering Tech.	141	111	78.7
Emergency Medical Technology[3]	398	252	63.3
Fashion Merchandising	39	28	71.8
Fire Science	56	47	83.9
Grounds & Turf Management (co-op)[2]	2	1	50.0
Health Information Tech. (co-op)[2]	7	6	85.7
Hospitality Management[4]	114	82	71.9
HVAC Technology	140	103	73.6
Information Technology	106	85	80.2
Interior Merchandising	70	52	74.3
Interpreter Training (selective)	71	57	80.3
Licensed Practical Nurse (AVS)	87	64	73.6
Marketing & Mgmt./Customer Relations	37	29	78.4
Metal Fabrication	11	7	63.6
M.I.C.T. (Paramedic)[3]	85	70	82.4
Nursing (selective)	272	233	85.7
Occup. Therapy Asst. (co-op)[2]	6	3	50.0

Table 6 (continued)

COMPARISON OF 5-YEAR TOTALS: CAREER PROGRAM COMPLETERS & RESPONDENTS

Career Program	Total Completers	Total Respondents	Respondents as % of Completers[1]
Office Systems Technology	169	137	81.1%
Paralegal (selective)	240	178	74.2
Physical Therapy Asst. (co-op)[2]	39	12	30.8
Printing Technology	3	2	66.7
Railroad Operations	1	1	100.0
Respiratory Care (selective)	70	64	91.4
Veterinary Tech. (co-op)[2]	62	23	37.1
5-Year Totals	3,254	2,396	73.6%

Note. [1] Unadjusted response rates. Adjusted response rates exclude completers with no opportunity to respond due to the unavailability of viable addresses and/or telephone numbers.

[2] Selective admissions co-op program with Metropolitan Community Colleges. Completer figures may include additional students suggested by co-op career program administrators for inclusion in the follow-up who did not originate their studies at JCCC.

[3] Completion figures may not be accurate due to dual enrollments of many EMS students in other programs such as Fire Science, Administration of Justice, or various allied health programs.

[4] Completer figure does not include students incarcerated at the U.S. Army Disciplinary Barracks in Fort Leavenworth, Kansas.

Table 7

5-YEAR AVERAGE: CURRENT STATUS OF RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

	Total Number of Responses	Employed in Job Related to Training	Employed in Job Unrelated to Training	Pursuing Additional Education	Unemployed; Not Pursuing Education	Not in Labor Force; Not Pursuing Ed.	Military
Accounting	60	86.6%	6.7%	1.7%	3.3%	1.7%	0.0%
Administration of Justice	47	59.7	34.0	2.1	2.1	2.1	0.0
Automotive Technology	28	82.2	10.7	7.1	0.0	0.0	0.0
Aviation Maintenance Tech. (co-op)	4	75.0	25.0	0.0	0.0	0.0	0.0
Business Administration	73	83.6	6.8	6.8	0.0	1.4	1.4
Business Entrepreneurship	7	71.4	28.6	0.0	0.0	0.0	0.0
Chef Apprentice	43	90.7	2.3	0.0	2.3	4.7	0.0
Civil Engineering Technology	13	76.9	15.4	0.0	0.0	7.7	0.0
Communication Design	76	80.3	6.6	5.3	6.6	1.2	0.0
Computer Information Systems	222	83.8	8.6	1.8	2.7	2.3	0.8
Construction Management	5	60.0	20.0	20.0	0.0	0.0	0.0
Cosmetology	16	87.4	0.0	6.3	6.3	0.0	0.0
Dental Hygiene (selective)	88	96.6	1.1	0.0	0.0	0.0	2.3
Drafting Technology	41	78.1	4.9	14.6	2.4	0.0	0.0
Electrical Technology	19	94.7	0.0	0.0	0.0	0.0	5.3
Electronics Engineering Tech.	109	78.9	9.2	10.1	0.9	0.9	0.0
Emergency Medical Technology	247	53.5	32.8	9.3	2.0	1.6	0.8
Fashion Merchandising	27	85.2	0.0	7.4	0.0	7.4	0.0
Fire Science	45	80.0	15.6	0.0	2.2	0.0	2.2
Health Information Tech. (co-op)	6	83.3	0.0	0.0	16.7	0.0	0.0
Hospitality Management	81	86.4	1.2	6.2	1.2	2.5	2.5
HVAC Technology	102	74.5	15.7	1.0	4.9	3.9	0.0
Information Technology	85	89.4	8.2	0.0	0.0	2.4	0.0
Interior Merchandising	52	82.7	1.9	1.9	5.8	5.8	1.9
Interpreter Training (selective)	56	83.8	5.4	1.8	5.4	1.8	1.8
Licensed Practical Nurse (LPN)	64	89.2	1.5	6.3	1.5	1.5	0.0
Marketing & Management	28	89.3	7.1	0.0	3.6	0.0	0.0

Table 7 (continued)

5-YEAR AVERAGE: CURRENT STATUS OF RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

	Total Number of Responses	Employed in Job Related to Training	Employed in Job Unrelated to Training	Pursuing Additional Education	Unemployed; Not Pursuing Education	Not in Labor Force; Not Pursuing Ed.	Military Service
Metal Fabrication	7	85.7%	14.3%	0.0%	0.0%	0.0%	0.0%
M.I.C.T. (Paramedic)	70	91.4	1.4	2.9	1.4	2.9	0.0
Nursing (selective)	232	94.8	0.9	0.0	3.0	1.3	0.0
Occupational Therapy Asst	3	100.0	0.0	0.0	0.0	0.0	0.0
Office Systems Technology	132	73.5	9.8	7.6	3.0	6.1	0.0
Paralegal (selective)	177	81.8	9.6	2.3	2.3	3.4	0.6
Physical Therapy Assistant	12	100.0	0.0	0.0	0.0	0.0	0.0
Printing Technology	2	100.0	0.0	0.0	0.0	0.0	0.0
Respiratory Care (selective)	63	96.8	1.6	0.0	0.0	1.6	0.0
Veterinary Tech. (co-op)	23	95.7	0.0	0.0	4.3	0.0	0.0
5-Year Totals	2,366	81.8%	9.5%	3.7%	2.3%	2.2%	0.5%
Total for Class of: 1993-94 (30 programs)	516	82.2%	9.2%	3.8%	2.7%	1.8%	0.3%
1994-95 (31 programs)	475	82.2	8.1	3.6	2.4	3.4	0.4
1995-96 (30 programs)	399	79.2	11.0	4.8	2.5	1.3	1.3
1996-97 (36 programs)	491	83.1	10.0	2.9	2.2	1.0	0.8
1997-98 (33 programs)	485	81.6	9.5	3.7	1.4	3.3	0.5

Note. Employed respondents who were also pursuing additional education appear in the appropriate employment category only. Unknowns have been excluded.

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Table 8

5-YEAR COMPARISON: AVERAGE HOURLY WAGE OF RESPONDENTS EMPLOYED *FULL-TIME* IN A RELATED JOB

Career Program	Academic Year in Which Program Was Completed '93-94	'94-95	'95-96	'96-97	'97-98
Accounting	$9.82	$9.56	$11.39	$12.27	$12.60
Administration of Justice	9.99	11.27	12.00	13.00	16.00
Automotive Technology	11.04	10.38	12.53	11.54	13.35
Aviation Maintenance Tech. (co-op)	13.00	n.a	10.62	n.a	n.a
Business Administration	14.21	11.76	19.04	11.96	12.64
Business Entrepreneurship	n.a	6.50	17.50	n.a	n.a
Chef Apprentice	10.40	9.71	12.54	12.60	13.00
Civil Engineering Tech.	10.40	11.00	n.a	n.a	13.25
Communication Design	10.02	10.25	11.31	12.94	13.96
Computer Information Systems	14.09	15.26	14.02	13.94	17.03
Construction Management	n.a	n.a	n.a	n.a	18.00
Cosmetology	n.a	n.a	6.50	14.00	12.29
Dental Hygiene (selective)	19.91	19.86	21.03	22.30	23.24
Drafting Technology	10.43	14.87	10.64	13.18	12.06
Electrical Technology	n.a	n.a	20.00	15.08	13.01
Electronics Engineering Tech.	10.45	15.92	14.07	13.41	16.43
Emergency Medical Technology	9.74	11.53	11.73	9.45	10.93
Fashion Merchandising	6.50	8.50	8.72	8.59	10.32
Fire Science	15.73	10.57	12.39	16.24	10.00
Health Information Tech. (co-op)	10.63	n.a	n.a	11.00	n.a
Hospitality Management	10.70	9.90	11.37	11.16	12.29
HVAC Technology	13.12	13.48	18.47	15.41	16.07
Information Technology	n.a	n.a	n.a	17.97	17.67
Interior Merchandising	9.60	11.87	13.76	10.48	10.50
Interpreter Training (selective)	9.08	13.35	10.92	11.76	14.41
Licensed Practical Nurse (AVS)	n.a	10.95	12.15	10.71	12.33
Marketing & Management	11.67	14.83	n.a	8.91	14.43
Metal Fabrication	8.42	10.00	10.02	n.a	14.18
M.I.C.T. (Paramedic)	10.07	10.71	11.63	12.40	13.21
Nursing (selective)	15.24	15.11	15.09	15.77	16.31
Occupational Therapy Assistant	n.a	n.a	n.a	12.23	n.a
Office Systems Technology	8.95	9.25	10.32	10.10	11.85

Table 8 (continued)

5-YEAR COMPARISON: AVERAGE HOURLY WAGE OF RESPONDENTS EMPLOYED *FULL-TIME* IN A RELATED JOB

Completed Career Program	Academic Year in Which Program Was '93-94	'94-95	'95-96	'96-97	'97-98
Paralegal (selective)	$10.41	$11.08	$11.22	$12.49	$13.50
Physical Therapy Asst. (co-op)	n.a	n.a	n.a	n.a	14.94
Printing Technology	n.a	n.a	n.a	12.92	n.a
Radiologic Tech. (co-op)	n.a	n.a	n.a	n.a	n.a
Respiratory Care (selective)	14.09	13.11	14.42	14.48	15.86
Veterinary Tech. (co-op)	8.76	8.52	n.a	10.00	9.30
Overall Average Hourly Wage	$12.18	$12.81	$13.58	$13.92	$14.56

Note. Results detail responses to this question only, excluding unknowns. Caution should be exercised when interpreting these hourly wages due to the small number of respondents in some career programs and differences in working conditions, longevity, and job responsibilities.

Respondents have not always been willing to disclose their wages or to return surveys. Thus, "n.a" indicates that the data were not available.

Table 9

5-YEAR AVERAGE: PERCENT OF RESPONDENTS SATISFIED WITH FULL-TIME RELATED JOB

Career Program	Number of Responses	Percent Satisfied
Accounting	42	83.3%
Administration of Justice	18	61.1
Automotive Technology	20	85.0
Aviation Maintenance Tech. (co-op)	2	50.0
Business Administration	56	71.4
Business Entrepreneurship	4	100.0
Chef Apprentice	38	81.6
Civil Engineering Tech.	9	77.8
Communication Design	45	93.3
Computer Information Systems	166	80.7
Construction Management	2	100.0
Cosmetology	11	90.9
Dental Hygiene (selective)	77	90.9
Drafting Technology	29	86.2
Electrical Technology	18	77.8
Electronics Engineering Tech.	77	85.7
Emergency Medical Technology	82	87.8
Fashion Merchandising	17	88.2
Fire Science	33	87.9
Health Information Tech. (co-op)	2	50.0
Hospitality Management	64	89.1
HVAC Technology	70	75.7
Interior Merchandising	33	75.8
Information Technology	72	84.7
Interpreter Training (selective)	30	86.7
Licensed Practical Nurse (LPN)	40	92.5
Marketing & Management	25	76.0
Metal Fabrication	6	66.7
M.I.C.T. (Paramedic)	57	94.7
Nursing (selective)	179	84.9
Occupational Therapy Assistant	2	100.0
Office Systems Technology	77	72.7

Table 9 (continued)

5-YEAR AVERAGE: PERCENT OF RESPONDENTS SATISFIED WITH FULL-TIME RELATED JOB

Career Program	Number of Responses	Percent Satisfied
Paralegal (selective)	128	82.8%
Physical Therapy Asst. (co-op)	9	100.0
Printing Technology	1	0.0
Respiratory Care (selective)	52	80.8
Veterinary Tech. (co-op)	22	86.4
5-Year Totals	1,615	83.1%
Totals for Class of 1993-94	345	83.2%
Class of 1994-95	341	81.4
Class of 1995-96	263	82.5
Class of 1996-97	338	85.5
Class of 1997-98	328	85.1

Note. Data were collected utilizing a 5-point scale ranging from very satisfied to very dissatisfied. Thus, these results include "very satisfied"and "somewhat satisfied" responses combined. Results detail responses to this question only, excluding unknowns.

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Table 10

5-YEAR AVERAGE: POSITIVE EMPLOYER EVALUATION OF COMPLETER'S OVERALL JOB PREPARATION

Career Program	Number of Responses	Good/ Very Good
Accounting	22	100.0%
Administration of Justice	16	75.0
Automotive Technology	12	75.0
Aviation Maintenance Tech. (co-ep)	2	100.0
Business Administration	28	92.9
Business Entrepreneurship	3	100.0
Chef Apprentice	26	69.2
Civil Engineering Tech.	8	87.5
Communication Design	33	93.9
Computer Information Systems	63	90.5
Construction Management	2	100.0
Cosmetology	5	100.0
Dental Hygiene(selective)	54	90.7
Drafting Technology	21	85.7
Electrical Technology	9	77.8
Electronics Engineering Tech.	40	90.0
Emergency Medical Technology	53	90.6
Fashion Merchandising	12	100.0
Fire Science	21	95.2
Health Information Tech. (co-op)	2	100.0
Hospitality Management	35	80.0
HVAC Technology	39	89.7
Information Technology	23	100.0
Interior Merchandising	20	95.0
Interpreter Training (selective)	34	88.2
Licensed Practical Nurse (LPN)	28	96.4
Marketing & Management	13	100.0
Metal Fabrication	5	100.0
M.I.C.T. (Paramedic)	35	94.3
Nursing (selective)	125	84.0
Occupational Therapy Assistant	1	100.0
Office Systems Technology	48	91.7

Table 10 (continued)

5-YEAR COMPARISON: POSITIVE EMPLOYER EVALUATIONS OF COMPLETER'S OVERALL JOB PREPARATION

	Number of Responses	Good/ Very Good
Paralegal (selective)	67	94.0%
Physical Therapy Asst. (co-op)	3	100.0
Printing Technology	1	100.0
Respiratory Care	34	94.1
Veterinary Tech. (co-op)	15	100.0
5-Year Totals	958	90.1%
Total for Class of 1993-94	237	87.7%
1994-95	208	84.3
1995-96	161	90.1
1996-97	173	93.1
1997-98	179	91.1

Table 11

PERCENT OF RESPONDENTS TO LONG-TERM FOLLOW-UP STUDIES WHO WERE EMPLOYED IN A RELATED JOB 4 YEARS AFTER CAREER PROGRAM COMPLETION

Career Program	Year in Which Long-Term Study Conducted 1994	1995	1996	1997	1998
Accounting	75.0%	100.0%	75.0%	100.0%	80.0%
Administration of Justice	50.0	0.0	50.0	66.7	60.0
Automotive Technology	100.0	75.0	71.4	85.7	66.7
Aviation Maintenance Tech. (co-op)	n.a	n.a	100.0	100.0	100.0
Business Administration	83.3	77.8	86.7	94.1	81.8
Chef Apprentice	100.0	100.0	100.0	90.0	60.0
Civil Engineering Technology	n.a	n.a	100.0	100.0	100.0
Communication Design	80.0	66.7	71.5	88.9	69.2
Computer Information Systems	80.0	89.7	84.0	70.8	83.3
Dental Hygiene (selective)	85.7	100.0	100.0	100.0	84.6
Drafting Technology	100.0	87.5	100.0	62.5	84.6
Electronics Engineering Technology	87.5	87.5	75.0	85.7	88.0
Emergency Medical Technology	68.4	72.2	72.4	94.1	80.0
Fashion Merchandising	62.5	75.0	66.7	50.0	83.3
Fire Science	90.9	100.0	100.0	100.0	85.7
HVAC Technology	83.3	90.0	78.6	80.0	85.7
Health Information Tech. (co-op)	66.7	100.0	80.0	83.3	75.0
Hospitality Management	62.5	72.7	76.9	90.9	83.3
Interior Merchandising	30.0	100.0	87.5	25.0	61.5
Interpreter Training (selective)	90.0	100.0	100.0	60.0	80.0
Marketing & Management	80.0	100.0	100.0	100.0	87.5
M.I.C.T. (Paramedic)	100.0	81.3	100.0	88.9	100.0
Metal Fabrication	n.a	n.a	n.a	n.a	100.0
Nursing (selective)	93.8	95.2	92.9	93.4	100.0
Occupational Therapy Asst. (co-op)	100.0	n.a	100.0	100.0	n.a

Table 11 (continued)

PERCENT OF RESPONDENTS TO LONG-TERM FOLLOW-UP STUDIES WHO WERE EMPLOYED IN A RELATED JOB 4 YEARS AFTER CAREER PROGRAM COMPLETION

Career Program	Year in Which Long-Term Study Conducted				
	1994	1995	1996	1997	1998
Office Systems Technology	90.0%	85.7%	76.2%	81.3%	68.2%
Paralegal (selective)	70.5	68.1	70.6	71.4	76.0
Physical Therapy Asst. (co-op)	100.0	100.0	n.a	100.0	n.a
Radiologic Technology (co-op)	50.0	80.0	n.a	100.0	n.a
Respiratory Therapy (selective)	100.0	100.0	100.0	100.0	100.0
Veterinary Tech. (co-op)	n.a	100.0	100.0	66.7	100.0
Totals	79.7%	84.7%	82.7%	84.5%	82.6%

Table 12

AVERAGE HOURLY WAGE OF RESPONDENTS TO LONG-TERM FOLLOW-UP STUDIES WHO WERE EMPLOYED FULL-TIME IN A RELATED JOB 4 YEARS AFTER CAREER PROGRAM COMPLETION

Career Program	Year in Which Long-Term Study Conducted				
	1994	1995	1996	1997	1998
Accounting	$9.17	$12.83	$17.00	$12.80	$8.56
Administration of Justice	n.a	n.a	12.49	13.33	15.32
Automotive Technology	19.00	14.72	15.67	15.00	13.07
Aviation Maintenance Tech. (co-op)	n.a	n.a	15.00	14.50	15.50
Business Administration	20.08	15.69	15.46	18.81	18.37
Chef Apprentice	13.71	11.38	16.74	15.89	14.21
Civil Engineering Technology	n.a	n.a	14.42	15.75	16.62
Communication Design	11.62	13.35	11.66	13.16	19.97
Computer Information Systems	19.24	17.51	16.52	20.56	21.18
Dental Hygiene (selective)	17.98	20.33	21.55	20.84	24.71
Drafting Technology	8.50	13.43	13.17	16.55	15.00
Electronics Engineering Technology	15.01	18.00	15.13	16.40	17.29
Emergency Medical Technology	11.20	11.28	14.26	11.60	14.82
Fashion Merchandising	10.18	9.00	14.42	10.00	10.98
Fire Science	14.72	16.46	12.98	15.46	21.50
HVAC Technology	13.21	16.40	16.62	17.88	16.36
Health Information Tech. (co-op)	9.33	13.45	12.20	12.74	13.66
Hospitality Management	10.40	12.17	12.87	16.90	17.21
Interior Merchandising	10.00	15.00	13.50	n.a	14.50
Interpreter Training (selective)	12.23	16.20	22.50	16.05	14.48
Marketing & Management	8.28	19.18	15.37	10.91	13.77
M.I.C.T. (Paramedic)	11.84	12.07	11.69	12.81	13.66
Nursing (selective)	16.86	17.48	16.97	17.13	20.07
Occupational Therapy Asst. (co-op)	n.a	n.a	14.25	n.a	n.a
Office Systems Technology	11.11	11.73	11.58	13.58	13.31

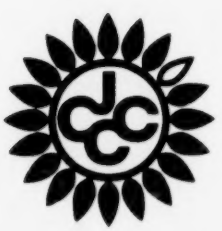
Table 12 (continued)

AVERAGE HOURLY WAGE OF RESPONDENTS TO LONG-TERM FOLLOW-UP STUDIES WHO WERE EMPLOYED FULL-TIME IN A RELATED JOB 4 YEARS AFTER CAREER PROGRAM COMPLETION

Career Program	Year in Which Long-Term Study Conducted				
	1994	1995	1996	1997	1998
Paralegal (selective)	$12.65	$11.82	$12.75	$13.28	$15.35
Physical Therapy Asst. (co-op)	23.00	15.96	n.a	19.23	n.a
Radiologic Technology (co-op)	12.48	13.63	n.a	14.13	n.a
Respiratory Therapy (selective)	14.79	14.22	17.40	14.85	15.57
Veterinary Tech. (co-op)	n.a	n.a	11.04	10.13	12.93
Totals	$14.17	$14.82	$14.84	$15.83	$16.78

Note. Results detail responses to this question only, excluding unknowns. Caution should be exercised when interpreting these hourly wages due to the small number of respondents in some career programs and differences in working conditions, longevity, and job responsibilities.

Respondents have not always been willing to disclose their wages or to return surveys. Thus, "n.a" indicates that the data were not available.



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